

# MAK COMPRESSOR OILS

## Description

Reciprocating Compressors operate at high temperatures and pressures and their main requirement is to sustain a strong film so as to avoid surface wear.

Being formulated from High viscosity base oils, MAK Compressor oils are ashless chemistry oils which provide good film strength even at high temperatures. They have shown low carbon forming tendency, good demulsibility, low sludge and deposit formation tendency and exceptional resistance to oxidation and thermal degradation. These oils help in extending compressor life by reducing piston ring and cylinder wear. They have been blended with fitting additive dosage to impart, anticorrosive and antiwear properties. These oils are designed to provide excellent protection and lubrication for crankcase and cylinders of reciprocating compressors.

## Application

These oils are recommended for high performance reciprocating compressors where air discharge temperatures may go up to 220 °C

MAK Compressor Oil 150 is approved by RDSO for use in Expressors / Compressors on diesel and electric locomotives of Indian Railways.

## Features and Benefits

### Outstanding Oxidation and Thermal Stability

**Longer Oil Life-** This oil has strong oxidation resistance and hence is less prone to degradation caused by exposure to high discharge temperatures and contact with air.

**Lower Maintenance costs:** oil has lesser tendency to form sludge & varnish and hence it provides trouble free operation and lower maintenance costs on fluid change out

### Low Ash & Carbon Formation

**Improved Compressor performance:** Due to low carbon forming tendency, deposit forming tendency of oil is reduced. This provides improved valve operation and reduced deposits in lines.

**Extended maintenance intervals:** due to reduced deposit formation on valves, the maintenance intervals for valves and other components increase.

### Excellent Demulsibility

Reduced sludge formation in crancases and discharge lines

## Performance Level

- DIN 51506-VDL
- ISO / DP 6521
- IS 13256:1992 DAA & DAB type [Reaffirmed Nov.,1998]

## Technical Specifications

Characteristics	ASTM	MAK Compressor Oil		
		32	46	68
Appearance	--	Clear & Bright	Clear & Bright	Clear & Bright
Density @15°C	D1298	0.8533	0.8567	0.8618
K.V at 40° C, cSt	D445	32.4	46.1	68.8
Viscosity Index	D2270	108	108	108
Pour Point, °C	D97	-15	-15	-15
Flash Point, (COC), °C	D92	230	242	244

Characteristics	ASTM	MAK Compressor Oil			
		100	150	220	320
Appearance	--	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright
Density @15°C	D1298	0.8661	0.8703	0.8872	0.8923
K.V at 40° C, cSt	D445	100.2	150.5	220.3	320.7
Viscosity Index	D2270	108	101	98	96
Pour Point, °C	D97	-12	-9	-6	-6
Flash Point, (COC), °C	D92	250	258	262	264

All the mentioned values are typical which may vary from batch to batch.

Selection of the required viscosity grade should be based upon the compressor manufacturer's recommendation

## Storage and Handling

- Indoor Storage is always preferable
- Barrels should be kept horizontally with bunk position at 3 O'clock 9 O'clock position
- Barrels should be kept away from dusty or heated areas.
- During handling any contact with dust must be avoided.

## Health and Safety

These oils are not hazardous under normal conditions of use. For further guidance appropriate Material Safety Data Sheet (MSDS) may be referred.

## Advice

For any further advice on applications or otherwise please contact the nearest Bharat Petroleum Territory Office or Technical Services Department at the address given below.

### **Bharat Petroleum Corporation Ltd.**

Product and Application Development Dept.  
BPCL 'A' Installation, Sewree Fort Road, Sewree (East)  
Mumbai -400015  
E-mail: [MAKcustomercare2@bharatpetroleum.in](mailto:MAKcustomercare2@bharatpetroleum.in)  
Tel No.: 022-24176351